

Patent Application US/08/062,021

SEQUENCE LISTING

See pp. 1 + 6

1 (1) GENERAL INFORMATION
2 (i) APPLICANT: Lynn Bergmeyer
3 Thomas J. Cummins
4 John B. Findlay
5 JoAnne H. Kerschner
6 (ii) TITLE OF THE INVENTION: DIAGNOSTIC
7 COMPOSITIONS, ELEMENTS, METHODS AND TEST KITS
8 FOR AMPLIFICATION AND DETECTION OF HUMAN CMV
9 DNA USING PRIMERS HAVING MATCHED MELTING
10 TEMPERATURES
11 (iii) NUMBER OF SEQUENCES: 26
12 (iv) CORRESPONDENCE ADDRESS:
13 (A) ADDRESSEE: Eastman Kodak Company,
14 Patent Legal Staff
15 (B) STREET: 343 State Street
16 (C) CITY: Rochester
17 (D) STATE: New York
18 (E) COUNTRY: U.S.A.
19 (F) ZIP: 14650 - 2201
20 (v) COMPUTER READABLE FORM:
21 (A) MEDIUM TYPE: Diskette, 3.5
22 inch, 1.44 MB storage (IBM)
23 (B) COMPUTER: IBM PS/2
24 (C) OPERATING SYSTEM: MS-DOS Version
25 3.3
26 (D) SOFTWARE: PC-8 (Word for Windows)
27 (vi) CURRENT APPLICATION DATA:
28 (A) APPLICATION NUMBER: To Be Assigned
29 (B) FILING DATE: To Be Assigned
30 (C) CLASSIFICATION: To Be Assigned
31 (vii) PRIOR APPLICATION DATE: None
32 (viii) ATTORNEY/AGENT INFORMATION:
33 (A) NAME: Tucker, J. Lanny
34 (B) REGISTRATION NUMBER: 27,678
35 (C) REFERENCE/DOCKET NUMBER: 67270
36 (ix) TELECOMMUNICATION INFORMATION:
37 (A) TELEPHONE: (716) 722-9332
38 (B) TELEFAX: (716) 477-4646
39
40
41
42 (2) INFORMATION FOR SEQ ID NO:1
43 (i) SEQUENCE CHARACTERISTICS:
44 (A) LENGTH: 25 nucleotides
45 (B) TYPE: Nucleic acid
46 (C) STRANDEDNESS: Single
47 (D) TOPOLOGY: Linear
48 (ii) MOLECULE TYPE: Primer for hCMV DNA
49 (iii) HYPOTHETICAL: No
50 (iv) ANTI-SENSE: No
51 (vi) ORIGINAL SOURCE: Synthetically prepared
52 (vii) IMMEDIATE SOURCE: Same

This colon is not correct throughout this sequence listing. The computer
please delete this throughout the sequence listing. The computer
sees it as an error.
(I suggest a "search and
replace" function for
this: Search for all
"ID: " & replace with
"ID" space).

Patent Application US/08/062,021

53 (x) PUBLICATION INFORMATION: U.S. 5,147,777
54 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:1
55
56 GAGGCTATTG TAGCCTACAC TTTGG 25
57
58 (3) INFORMATION FOR SEQ ID:NO:2
59 (i) SEQUENCE CHARACTERISTICS:
60 (A) LENGTH: 25 nucleotides
61 (B) TYPE: Nucleic acid
62 (C) STRANDEDNESS: Single
63 (D) TOPOLOGY: Linear
64 (ii) MOLECULE TYPE: Primer for hCMV DNA
65 (iii) HYPOTHETICAL: No
66 (iv) ANTI-SENSE: No
67 (vi) ORIGINAL SOURCE: Synthetically prepared
68 (vii) IMMEDIATE SOURCE: Same
69 (x) PUBLICATION INFORMATION: U.S. 5,147,777
70 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:2
71
72 CAGCACCATC CTCCCTCTTCC TCTGG 25
73
74
75
76 (4) INFORMATION FOR SEQ ID:NO:3
77 (i) SEQUENCE CHARACTERISTICS:
78 (A) LENGTH: 25 nucleotides
79 (B) TYPE: Nucleic acid
80 (C) STRANDEDNESS: Single
81 (D) TOPOLOGY: Linear
82 (ii) MOLECULE TYPE: Primer for hCMV DNA
83 (iii) HYPOTHETICAL: No
84 (iv) ANTI-SENSE: No
85 (vi) ORIGINAL SOURCE: Synthetically prepared
86 (vii) IMMEDIATE SOURCE: Same
87 (x) PUBLICATION INFORMATION: None
88 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:3
89
90 TGCACTGCCA GGTGCTTCGG CTCAT 25
91
92 (5) INFORMATION FOR SEQ ID:NO:4
93 (i) SEQUENCE CHARACTERISTICS:
94 (A) LENGTH: 25 nucleotides
95 (B) TYPE: Nucleic acid
96 (C) STRANDEDNESS: Single
97 (D) TOPOLOGY: Linear
98 (ii) MOLECULE TYPE: Primer for hCMV DNA
99 (iii) HYPOTHETICAL: No
100 (iv) ANTI-SENSE: No
101 (vi) ORIGINAL SOURCE: Synthetically prepared
102 (vii) IMMEDIATE SOURCE: Same
103 (x) PUBLICATION INFORMATION: U.S. 5,147,777
104 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:4

Patent Application US/08/062,021

105
106 CACCA CGCAG CGGCC TTGA TGTTT 25
107
108
109
110 (6) INFORMATION FOR SEQ ID: NO: 5
111 (i) SEQUENCE CHARACTERISTICS:
112 (A) LENGTH: 30 nucleotides
113 (B) TYPE: Nucleic acid
114 (C) STRANDEDNESS: Single
115 (D) TOPOLOGY: Linear
116 (ii) MOLECULE TYPE: Probe for hCMV DNA
117 (iii) HYPOTHETICAL: No
118 (iv) ANTI-SENSE: No
119 (vi) ORIGINAL SOURCE: Synthetically prepared
120 (vii) IMMEDIATE SOURCE: Same
121 (x) PUBLICATION INFORMATION: U.S. 5,147,777
122 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO: 5
123
124 GGTGTCACCC CCAGAGTCCC CTGTACCCGG 30
125
126 (7) INFORMATION FOR SEQ ID: NO: 6
127 (i) SEQUENCE CHARACTERISTICS:
128 (A) LENGTH: 30 nucleotides
129 (B) TYPE: Nucleic acid
130 (C) STRANDEDNESS: Single
131 (D) TOPOLOGY: Linear
132 (ii) MOLECULE TYPE: Probe for hCMV DNA
133 (iii) HYPOTHETICAL: No
134 (iv) ANTI-SENSE: No
135 (vi) ORIGINAL SOURCE: Synthetically prepared
136 (vii) IMMEDIATE SOURCE: Same
137 (x) PUBLICATION INFORMATION: U.S. 5,147,777
138 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO: 6
139
140 GACACAGTGT CCTCCCGCTC CTCCTGAGCA 30
141
142
143
144 (8) INFORMATION FOR SEQ ID: NO: 7
145 (i) SEQUENCE CHARACTERISTICS:
146 (A) LENGTH: 30 nucleotides
147 (B) TYPE: Nucleic acid
148 (C) STRANDEDNESS: Single
149 (D) TOPOLOGY: Linear
150 (ii) MOLECULE TYPE: Probe for hCMV DNA
151 (iii) HYPOTHETICAL: No
152 (iv) ANTI-SENSE: No
153 (vi) ORIGINAL SOURCE: Synthetically prepared
154 (vii) IMMEDIATE SOURCE: Same
155 (x) PUBLICATION INFORMATION: U.S. 5,147,777
156 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO: 7

Patent Application US/08/062,021

157
158 GTGGAAGGCG GCTCGCTGGA AGCCGGTCGT 30
159
160 (9) INFORMATION FOR SEQ ID:NO:8
161 (i) SEQUENCE CHARACTERISTICS:
162 (A) LENGTH: 30 nucleotides
163 (B) TYPE: Nucleic acid
164 (C) STRANDEDNESS: Single
165 (D) TOPOLOGY: Linear
166 (ii) MOLECULE TYPE: Probe for hCMV DNA
167 (iii) HYPOTHETICAL: No
168 (iv) ANTI-SENSE: No
169 (vi) ORIGINAL SOURCE: Synthetically prepared
170 (vii) IMMEDIATE SOURCE: Same
171 (x) PUBLICATION INFORMATION: U.S. 5,147,777
172 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:8
173
174 GAACCGAGGG CCGGCTCAC TCTATGTTGG 30
175
176
177
178 (10) INFORMATION FOR SEQ ID:NO:9
179 (i) SEQUENCE CHARACTERISTICS:
180 (A) LENGTH: 41 nucleotides
181 (B) TYPE: Nucleic acid
182 (C) STRANDEDNESS: Single
183 (D) TOPOLOGY: Linear
184 (ii) MOLECULE TYPE: Probe for HIV-I DNA
185 (iii) HYPOTHETICAL: No
186 (iv) ANTI-SENSE: No
187 (vi) ORIGINAL SOURCE: Synthetically prepared
188 (vii) IMMEDIATE SOURCE: Same
189 (x) PUBLICATION INFORMATION: Unknown
190 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:9
191
192 ATCCTGGGAT TAAATAAAAT AGTAAGAATG TATAGCCCTA C 41
193
194 (11) INFORMATION FOR SEQ ID:NO:10
195 (i) SEQUENCE CHARACTERISTICS:
196 (A) LENGTH: 28 nucleotides
197 (B) TYPE: Nucleic acid
198 (C) STRANDEDNESS: Single
199 (D) TOPOLOGY: Linear
200 (ii) MOLECULE TYPE: Primer for HIV-I DNA
201 (iii) HYPOTHETICAL: No
202 (iv) ANTI-SENSE: No
203 (vi) ORIGINAL SOURCE: Synthetically prepared
204 (vii) IMMEDIATE SOURCE: Same
205 (x) PUBLICATION INFORMATION: Unknown
206 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:10
207
208 AGTGGGGGGA CATCAAGCAG CCATGCAA 28

Patent Application US/08/062,021

209
210
211
212 (12) INFORMATION FOR SEQ ID:NO:11
213 (i) SEQUENCE CHARACTERISTICS:
214 (A) LENGTH: 26 nucleotides
215 (B) TYPE: Nucleic acid
216 (C) STRANDEDNESS: Single
217 (D) TOPOLOGY: Linear
218 (ii) MOLECULE TYPE: Primer for HIV-I DNA
219 (iii) HYPOTHETICAL: No
220 (iv) ANTI-SENSE: No
221 (vi) ORIGINAL SOURCE: Synthetically prepared
222 (vii) IMMEDIATE SOURCE: Same
223 (x) PUBLICATION INFORMATION: None
224 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:11
225
226 CTTGGTTCTC TCATCTGCC TGGTGC 26
227
228 (13) INFORMATION FOR SEQ ID:NO:12
229 (i) SEQUENCE CHARACTERISTICS:
230 (A) LENGTH: 28 nucleotides
231 (B) TYPE: Nucleic acid
232 (C) STRANDEDNESS: Single
233 (D) TOPOLOGY: Linear
234 (ii) MOLECULE TYPE: Primer for HIV-I DNA
235 (iii) HYPOTHETICAL: No
236 (iv) ANTI-SENSE: No
237 (vi) ORIGINAL SOURCE: Synthetically prepared
238 (vii) IMMEDIATE SOURCE: Same
239 (x) PUBLICATION INFORMATION: None
240 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:12
241
242 TAGCACCCAC CAGGGCAAAAG AGAAGAGT 28
243
244
245
246 (14) INFORMATION FOR SEQ ID:NO:13
247 (i) SEQUENCE CHARACTERISTICS:
248 (A) LENGTH: 28 nucleotides
249 (B) TYPE: Nucleic acid
250 (C) STRANDEDNESS: Single
251 (D) TOPOLOGY: Linear
252 (ii) MOLECULE TYPE: Primer for HIV-I DNA
253 (iii) HYPOTHETICAL: No
254 (iv) ANTI-SENSE: No
255 (vi) ORIGINAL SOURCE: Synthetically prepared
256 (vii) IMMEDIATE SOURCE: Same
257 (x) PUBLICATION INFORMATION: None
258 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:13
259
260 AGATGCTGTT GCGCCTCAAT AGCCCTCA 28

Patent Application US/08/062,021

261
262 (15) INFORMATION FOR SEQ ID:NO:14
263 (i) SEQUENCE CHARACTERISTICS:
264 (A) LENGTH: 28 nucleotides
265 (B) TYPE: Nucleic acid
266 (C) STRANDEDNESS: Single
267 (D) TOPOLOGY: Linear
268 (ii) MOLECULE TYPE: Probe for HIV-I DNA
269 (iii) HYPOTHETICAL: No
270 (iv) ANTI-SENSE: No
271 (vi) ORIGINAL SOURCE: Synthetically prepared
272 (vii) IMMEDIATE SOURCE: Same
273 (x) PUBLICATION INFORMATION: None
274 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:14
275
276 GAGACCATCA ATGAGGAGC TGCAGAAT 28
277
278
279
280 (16) INFORMATION FOR SEQ ID:NO:15
281 (i) SEQUENCE CHARACTERISTICS:
282 (A) LENGTH: 28 nucleotides
283 (B) TYPE: Nucleic acid
284 (C) STRANDEDNESS: Single
285 (D) TOPOLOGY: Linear
286 (ii) MOLECULE TYPE: Probe for HIV-I DNA
287 (iii) HYPOTHETICAL: No
288 (iv) ANTI-SENSE: No
289 (vi) ORIGINAL SOURCE: Synthetically prepared
290 (vii) IMMEDIATE SOURCE: Same
291 (x) PUBLICATION INFORMATION: None
292 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:15
293
294 GTGCAGCAGC AGAACATTTC GCTGAGGG 28
295
296 (17) INFORMATION FOR SEQ ID:NO:16
297 (i) SEQUENCE CHARACTERISTICS:
298 (A) LENGTH: 27 nucleotides
299 (B) TYPE: Nucleic acid
300 (C) STRANDEDNESS: Single
301 (D) TOPOLOGY: Linear
302 (ii) MOLECULE TYPE: Primer for hCMV DNA
303 (iii) HYPOTHETICAL: No
304 (iv) ANTI-SENSE: No
305 (vi) ORIGINAL SOURCE: Synthetically prepared
306 (vii) IMMEDIATE SOURCE: Same
307 (x) PUBLICATION INFORMATION: None
308 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:16
309
310 5'-CATTCCCCACT GACTTTCTGA CGCACGT-3' 27
311
312

*delete -
(Sequences 1-15
are correct.
Sequences 16 > 26
are not because
of this.)*

Patent Application US/08/062,021

313
314 (18) INFORMATION FOR SEQ ID:NO:17
315 (i) SEQUENCE CHARACTERISTICS:
316 (A) LENGTH: 24 nucleotides
317 (B) TYPE: Nucleic acid
318 (C) STRANDEDNESS: Single
319 (D) TOPOLOGY: Linear
320 (ii) MOLECULE TYPE: Primer for hCMV DNA
321 (iii) HYPOTHETICAL: No
322 (iv) ANTI-SENSE: No
323 (vi) ORIGINAL SOURCE: Synthetically prepared
324 (vii) IMMEDIATE SOURCE: Same
325 (x) PUBLICATION INFORMATION: None
326 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:17
327
328 5'-TGAGGTCGTG GAACTTGATG GCGT-3' 24
329
330 (19) INFORMATION FOR SEQ ID:NO:18
331 (i) SEQUENCE CHARACTERISTICS:
332 (A) LENGTH: 30 nucleotides
333 (B) TYPE: Nucleic acid
334 (C) STRANDEDNESS: Single
335 (D) TOPOLOGY: Linear
336 (ii) MOLECULE TYPE: Probe for hCMV DNA
337 (iii) HYPOTHETICAL: No
338 (iv) ANTI-SENSE: No
339 (vi) ORIGINAL SOURCE: Synthetically prepared
340 (vii) IMMEDIATE SOURCE: Same
341 (x) PUBLICATION INFORMATION: None
342 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:18
343
344 5'-GGTCATCGCC GTAGTAGATG CGTAAGGCCT-3' 30
345
346
347
348 (20) INFORMATION FOR SEQ ID:NO:19
349 (i) SEQUENCE CHARACTERISTICS:
350 (A) LENGTH: 26 nucleotides
351 (B) TYPE: Nucleic acid
352 (C) STRANDEDNESS: Single
353 (D) TOPOLOGY: Linear
354 (ii) MOLECULE TYPE: Primer for avian
355 endogenous
356 provirus ev-1 DNA
357 (iii) HYPOTHETICAL: No
358 (iv) ANTI-SENSE: No
359 (vi) ORIGINAL SOURCE: Synthetically prepared
360 (vii) IMMEDIATE SOURCE: Same
361 (x) PUBLICATION INFORMATION: None
362 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:19
363
364 5'-GGAATGACGC AAGGACATAT GGGCGT-3' 26

Patent Application US/08/062,021

365
366 (21) INFORMATION FOR SEQ ID:NO:20
367 (i) SEQUENCE CHARACTERISTICS:
368 (A) LENGTH: 26 nucleotides
369 (B) TYPE: Nucleic acid
370 (C) STRANDEDNESS: Single
371 (D) TOPOLOGY: Linear
372 (ii) MOLECULE TYPE: Primer for avian
373 endogenous
374 provirus ev-1 DNA
375 (iii) HYPOTHETICAL: No
376 (iv) ANTI-SENSE: No
377 (v) ORIGINAL SOURCE: Synthetically prepared
378 (vi) IMMEDIATE SOURCE: Same
379 (x) PUBLICATION INFORMATION: None
380 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:20
381
382 5'-CCCAGGTGCA CACCAATGTG GTGGAT-3' 26
383
384
385
386 (22) INFORMATION FOR SEQ ID:NO:21
387 (i) SEQUENCE CHARACTERISTICS:
388 (A) LENGTH: 25 nucleotides
389 (B) TYPE: Nucleic acid
390 (C) STRANDEDNESS: Single
391 (D) TOPOLOGY: Linear
392 (ii) MOLECULE TYPE:Primer for positive
393 control target DNA
394 (iii) HYPOTHETICAL: No
395 (iv) ANTI-SENSE: No
396 (v) ORIGINAL SOURCE: Synthetically prepared
397 (vi) IMMEDIATE SOURCE: Same
398 (x) PUBLICATION INFORMATION: None
399 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:21
400
401 5'-GGACTGTYGCG CGTTGTATAC CCTGC-3' 25
402
403 (23) INFORMATION FOR SEQ ID:NO:22
404 (i) SEQUENCE CHARACTERISTICS:
405 (A) LENGTH: 25 nucleotides
406 (B) TYPE: Nucleic acid
407 (C) STRANDEDNESS: Single
408 (D) TOPOLOGY: Linear
409 (ii) MOLECULE TYPE:Primer for positive
410 control target DNA
411 (iii) HYPOTHETICAL: No
412 (iv) ANTI-SENSE: No
413 (v) ORIGINAL SOURCE: Synthetically prepared
414 (vi) IMMEDIATE SOURCE: Same
415 (x) PUBLICATION INFORMATION: None
416 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:22

Patent Application US/08/062,021

417 5'-ACTCCCGAAG CGAATGGCAC GTGGA-3' 25
419
420
421
422 (24) INFORMATION FOR SEQ ID:NO:23
423 (i) SEQUENCE CHARACTERISTICS:
424 (A) LENGTH: 25 nucleotides
425 (B) TYPE: Nucleic acid
426 (C) STRANDEDNESS: Single
427 (D) TOPOLOGY: Linear
428 (ii) MOLECULE TYPE:Primer for positive
429 control target DNA
430 (iii) HYPOTHETICAL: No
431 (iv) ANTI-SENSE: No
432 (vi) ORIGINAL SOURCE: Synthetically prepared
433 (vii) IMMEDIATE SOURCE: Same
434 (x) PUBLICATION INFORMATION: None
435 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:23
436
437 5'-CATAGCTTGT GCCCGTGTGG CACGT-3' 25
438
439 (25) INFORMATION FOR SEQ ID:NO:24
440 (i) SEQUENCE CHARACTERISTICS:
441 (A) LENGTH: 25 nucleotides
442 (B) TYPE: Nucleic acid
443 (C) STRANDEDNESS: Single
444 (D) TOPOLOGY: Linear
445 (ii) MOLECULE TYPE:Primer for positive
446 control target DNA
447 (iii) HYPOTHETICAL: No
448 (iv) ANTI-SENSE: No
449 (vi) ORIGINAL SOURCE: Synthetically prepared
450 (vii) IMMEDIATE SOURCE: Same
451 (x) PUBLICATION INFORMATION: None
452 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:24
453
454 5'-CCAAGACGAG ACCGTCAGAG CTGGT-3' 25
455
456
457
458 (26) INFORMATION FOR SEQ ID:NO:25
459 (i) SEQUENCE CHARACTERISTICS:
460 (A) LENGTH: 26 nucleotides
461 (B) TYPE: Nucleic acid
462 (C) STRANDEDNESS: Single
463 (D) TOPOLOGY: Linear
464 (ii) MOLECULE TYPE: Probe for avian
465 endogenous
466 provirus ev-1 DNA
467 (iii) HYPOTHETICAL: No
468 (iv) ANTI-SENSE: No

Patent Application US/08/062,021

469 (vi) ORIGINAL SOURCE: Synthetically prepared
470 (vii) IMMEDIATE SOURCE: Same
471 (x) PUBLICATION INFORMATION: None
472 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:25
473
474 5'-AAGCTGTTGC CGCCATCAA TAAACG-3' 26
475
476 (27) INFORMATION FOR SEQ ID:NO:26
477 (i) SEQUENCE CHARACTERISTICS:
478 (A) LENGTH: 30 nucleotides
479 (B) TYPE: Nucleic acid
480 (C) STRANDEDNESS: Single
481 (D) TOPOLOGY: Linear
482 (ii) MOLECULE TYPE: Probe for positive
483 control target DNA
484 (iii) HYPOTHETICAL: No
485 (iv) ANTI-SENSE: No
486 (vi) ORIGINAL SOURCE: Synthetically prepared
487 (vii) IMMEDIATE SOURCE: Same
488 (x) PUBLICATION INFORMATION: None
489 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:26
490
491 5'-CTGCGTTAGA CCGAGAACTG TGGATAAAGG-3' 30
492

LINE ERROR

ORIGINAL TEXT

24 Response Exceeds Line Limitations
 27 Response Exceeds Line Limitations
 30 Wrong application Serial Number
 32 Wrong Classification
 54 Wrong Sequence Number
 70 Wrong Sequence Number
 88 Wrong Sequence Number
 104 Wrong Sequence Number
 122 Wrong Sequence Number
 138 Wrong Sequence Number
 156 Wrong Sequence Number
 172 Wrong Sequence Number
 190 Wrong Sequence Number
 206 Wrong Sequence Number
 224 Wrong Sequence Number
 240 Wrong Sequence Number
 258 Wrong Sequence Number
 274 Wrong Sequence Number
 292 Wrong Sequence Number
 308 Wrong Sequence Number
 310 Wrong Nucleic Acid Designator (5)
 310 Wrong Nucleic Acid Designator (')
 310 Wrong Nucleic Acid Designator (-)
 310 Wrong Nucleic Acid Designator (-)
 310 Wrong Nucleic Acid Designator (3)
 310 Wrong Nucleic Acid Designator (')
 326 Wrong Sequence Number
 328 Wrong Nucleic Acid Designator (5)
 328 Wrong Nucleic Acid Designator (')
 328 Wrong Nucleic Acid Designator (-)
 328 Wrong Nucleic Acid Designator (-)
 328 Wrong Nucleic Acid Designator (3)
 328 Wrong Nucleic Acid Designator (')
 342 Wrong Sequence Number
 344 Wrong Nucleic Acid Designator (5)
 344 Wrong Nucleic Acid Designator (')
 344 Wrong Nucleic Acid Designator (-)
 344 Wrong Nucleic Acid Designator (-)
 344 Wrong Nucleic Acid Designator (3)
 344 Wrong Nucleic Acid Designator (')
 362 Wrong Sequence Number
 364 Wrong Nucleic Acid Designator (5)
 364 Wrong Nucleic Acid Designator (')
 364 Wrong Nucleic Acid Designator (-)
 364 Wrong Nucleic Acid Designator (-)
 364 Wrong Nucleic Acid Designator (3)
 364 Wrong Nucleic Acid Designator (')
 380 Wrong Sequence Number
 382 Wrong Nucleic Acid Designator (5)
 382 Wrong Nucleic Acid Designator (')
 382 Wrong Nucleic Acid Designator (-)
 382 Wrong Nucleic Acid Designator (-)

inch, 1.44 MB storage (IBM)
 3.3
 (A) APPLICATION NUMBER: To Be Assigned
 (C) CLASSIFICATION: To Be Assigned
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:1
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:2
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:3
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:4
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:5
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:6
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:7
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:8
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:9
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:10
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:11
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:12
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:13
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:14
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:15
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:16
 5'-CATTCCCACT GACTTTCTGA CGCACCT-3' 27
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:17
 5'-TGAGGTGCGT GAACTTGATG GCCT-3' 24
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:18
 5'-GGTCATGCC GTAGTAGATG CGTAAGGCCT-3'
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:19
 5'-GGAATGACGC AAGGACATAT GGGCGT-3' 26
 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:20
 5'-CCCAGGTGCA CACCAATGTC GTGGAT-3' 26
 5'-CCCAGGTGCA CACCAATGTC GTGGAT-3' 26
 5'-CCCAGGTGCA CACCAATGTC GTGGAT-3' 26
 5'-CCCAGGTGCA CACCAATGTC GTGGAT-3' 26

LINE ERROR

382 Wrong Nucleic Acid Designator (3)
382 Wrong Nucleic Acid Designator ('')
399 Wrong Sequence Number
401 Wrong Nucleic Acid Designator (5)
401 Wrong Nucleic Acid Designator ('')
401 Wrong Nucleic Acid Designator (-)
401 Wrong Nucleic Acid Designator (-)
401 Wrong Nucleic Acid Designator (3)
401 Wrong Nucleic Acid Designator ('')
416 Wrong Sequence Number
418 Wrong Nucleic Acid Designator (5)
418 Wrong Nucleic Acid Designator ('')
418 Wrong Nucleic Acid Designator (-)
418 Wrong Nucleic Acid Designator (-)
418 Wrong Nucleic Acid Designator (3)
418 Wrong Nucleic Acid Designator ('')
435 Wrong Sequence Number
437 Wrong Nucleic Acid Designator (5)
437 Wrong Nucleic Acid Designator ('')
437 Wrong Nucleic Acid Designator (-)
437 Wrong Nucleic Acid Designator (-)
437 Wrong Nucleic Acid Designator (3)
437 Wrong Nucleic Acid Designator ('')
452 Wrong Sequence Number
454 Wrong Nucleic Acid Designator (5)
454 Wrong Nucleic Acid Designator ('')
454 Wrong Nucleic Acid Designator (-)
454 Wrong Nucleic Acid Designator (-)
454 Wrong Nucleic Acid Designator (3)
454 Wrong Nucleic Acid Designator ('')
472 Wrong Sequence Number
474 Wrong Nucleic Acid Designator (5)
474 Wrong Nucleic Acid Designator ('')
474 Wrong Nucleic Acid Designator (-)
474 Wrong Nucleic Acid Designator (-)
474 Wrong Nucleic Acid Designator (3)
474 Wrong Nucleic Acid Designator ('')
489 Wrong Sequence Number
491 Wrong Nucleic Acid Designator (5)
491 Wrong Nucleic Acid Designator ('')
491 Wrong Nucleic Acid Designator (-)
491 Wrong Nucleic Acid Designator (-)
491 Wrong Nucleic Acid Designator (3)
491 Wrong Nucleic Acid Designator ('')

5' - CCCAGGTGCA CACCAATGTC GTGGAT-3' 26
 5' - CCCAGGTGCA CACCAATGTC GTGGAT-3' 26
 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO: 21
 5' - GGACTGTGCC CGTTGTATACT CCTGC-3' 25
 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO: 22
 5' - ACTCCCGAAG CGAAATGGCAC GTGGA-3' 25
 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO: 23
 5' - CATAGCTTGT GCCCCGTGTTG CACGT-3' 25
 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO: 24
 5' - CCAAGACGAG ACCGTCAGAG CTGGT-3' 25
 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO: 25
 5' - AAGCTGTTGC CGGCCATCAA AAAACG-3' 26
 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO: 26
 5' - CTGGCTTAGC CGCGAACACTG TGTTAAAAGG-3' 25
 5' - CTGGCTTAGC CGCGAACACTG TGTTAAAAGG-3' 25

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/08/062,021

DATE: 06/04/93
TIME: 15:24:00
S5726

MANDATORY IDENTIFIER THAT WAS NOT FOUND

APPLICATION NUMBER
FILING DATE

PAGE: 1

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/08/062,021

DATE: 06/04/93
TIME: 15:24:00
S5726

LINE ORIGINAL TEXT

CORRECTED TEXT

3 (1) GENERAL INFORMATION
8 (ii) TITLE OF THE INVENTION: DIAGNOSTIC
33 (vii) PRIOR APPLICATION DATE: None
42 (2) INFORMATION FOR SEQ ID: NO:1
54 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:1
58 (3) INFORMATION FOR SEQ ID: NO:2
70 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:2
76 (4) INFORMATION FOR SEQ ID: NO:3
88 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:3
92 (5) INFORMATION FOR SEQ ID: NO:4
104 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:4
110 (6) INFORMATION FOR SEQ ID: NO:5
122 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:5
126 (7) INFORMATION FOR SEQ ID: NO:6
138 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:6
144 (8) INFORMATION FOR SEQ ID: NO:7
156 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:7
160 (9) INFORMATION FOR SEQ ID: NO:8
172 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:8
178 (10) INFORMATION FOR SEQ ID: NO:9
190 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:9
194 (11) INFORMATION FOR SEQ ID: NO:10
206 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:10
212 (12) INFORMATION FOR SEQ ID: NO:11
224 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:11
228 (13) INFORMATION FOR SEQ ID: NO:12
240 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:12
246 (14) INFORMATION FOR SEQ ID: NO:13
258 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:13
262 (15) INFORMATION FOR SEQ ID: NO:14
274 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:14
280 (16) INFORMATION FOR SEQ ID: NO:15
292 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:15
296 (17) INFORMATION FOR SEQ ID: NO:16
308 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:16
314 (18) INFORMATION FOR SEQ ID: NO:17
326 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:17
330 (19) INFORMATION FOR SEQ ID: NO:18
342 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:18
348 (20) INFORMATION FOR SEQ ID: NO:19
362 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:19
366 (21) INFORMATION FOR SEQ ID: NO:20
380 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:20
386 (22) INFORMATION FOR SEQ ID: NO:21
399 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:21
403 (23) INFORMATION FOR SEQ ID: NO:22
416 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:22
422 (24) INFORMATION FOR SEQ ID: NO:23
435 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:23
439 (25) INFORMATION FOR SEQ ID: NO:24
452 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:24
458 (26) INFORMATION FOR SEQ ID: NO:25
472 (xi) SEQUENCE DESCRIPTION: SEQ ID: NO:25

(1) GENERAL INFORMATION:
(ii) TITLE OF INVENTION: DIAGNOSTIC
(vii) PRIOR APPLICATION DATA: None
(2) INFORMATION FOR SEQ ID NO:1:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:1:
(2) INFORMATION FOR SEQ ID NO:2:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:2:
(2) INFORMATION FOR SEQ ID NO:3:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:3:
(2) INFORMATION FOR SEQ ID NO:4:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:4:
(2) INFORMATION FOR SEQ ID NO:5:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:5:
(2) INFORMATION FOR SEQ ID NO:6:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:6:
(2) INFORMATION FOR SEQ ID NO:7:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:7:
(2) INFORMATION FOR SEQ ID NO:8:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:8:
(2) INFORMATION FOR SEQ ID NO:9:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:9:
(2) INFORMATION FOR SEQ ID NO:10:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:10
(2) INFORMATION FOR SEQ ID NO:11:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:11
(2) INFORMATION FOR SEQ ID NO:12:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:12
(2) INFORMATION FOR SEQ ID NO:13:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:13
(2) INFORMATION FOR SEQ ID NO:14:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:14
(2) INFORMATION FOR SEQ ID NO:15:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:15
(2) INFORMATION FOR SEQ ID NO:16:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:16
(2) INFORMATION FOR SEQ ID NO:17:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:17
(2) INFORMATION FOR SEQ ID NO:18:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:18
(2) INFORMATION FOR SEQ ID NO:19:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:19
(2) INFORMATION FOR SEQ ID NO:20:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:20
(2) INFORMATION FOR SEQ ID NO:21:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:21
(2) INFORMATION FOR SEQ ID NO:22:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:22
(2) INFORMATION FOR SEQ ID NO:23:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:23
(2) INFORMATION FOR SEQ ID NO:24:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:24
(2) INFORMATION FOR SEQ ID NO:25:
(xi) SEQUENCE DESCRIPTION: SEQ ID: NO:25

PAGE: 2

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/08/062,021

DATE: 06/04/93
TIME: 15:24:00
S5726

LINE ORIGINAL TEXT

476 (27) INFORMATION FOR SEQ ID:NO:26
489 (xi) SEQUENCE DESCRIPTION: SEQ ID:NO:26

CORRECTED TEXT

(2) INFORMATION FOR SEQ ID NO:NO:26:
(xi) SEQUENCE DESCRIPTION: SEQ ID:NO:26